

# Kaustubh Nitin Patil

Data Scientist | Machine Learning & Predictive Analytics

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Mumbai, IN

## SUMMARY

Analytical and results-driven professional with over 2 years of hands-on experience transforming complex datasets into meaningful insights that guide strategic decisions. Adept at uncovering patterns, forecasting trends, and building data-driven solutions that enhance business outcomes. Recognized for delivering measurable improvements in operational efficiency, risk management, and customer engagement through evidence-based decision-making. A collaborative problem-solver who thrives in cross-functional environments, with a proven ability to translate insights into impactful business strategies. Currently transitioning into a Data Scientist role, leveraging a strong foundation in analytics and applied problem-solving to develop advanced, scalable solutions.

## KEY SKILLS

• Data Science & AI Solution Development | Machine Learning (Supervised & Unsupervised Learning) | Deep Learning (Neural Networks) | Natural Language Processing (NLP) | Data Preprocessing, Cleaning & Analysis | Dashboarding & Data Visualization | Model Validation & Performance Optimization | Business Problem Translation into Data Science Solutions | Statistical Modelling | Predictive Modeling & Forecasting | Experimentation & Model Evaluation

## TECHNICAL SKILLS

- **Programming:** Python , R
- **Libraries/Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch , Scipy
- **Databases:** SQL
- **Cloud Platforms:** AWS, Azure , DataBricks
- **Generative AI & LLMs:** Large Language Models (LLMs), Generative AI

## SOFT SKILLS

- Analytical Thinking & Problem-Solving
- Stakeholder Communication
- Collaboration & Cross-functional Teamwork
- Critical Thinking & Attention to Detail

## PROFESSIONAL EXPERIENCE

|   |                   |
|---|-------------------|
| Analyst - Delivery  | May '22 - May '23 |
| TheMathCompany  | Bengaluru, IN     |
| <ul style="list-style-type: none"><li>• <b>Optimized customer targeting strategies</b> by analyzing large datasets with Python and SQL, uncovering behavioral patterns that <b>increased campaign efficiency and boosted revenue by 12%</b>.</li><li>• <b>Forecasted customer attrition and market shifts</b> using time series models (fbProphet), enabling proactive retention measures that <b>reduced churn by 10% and improved resource allocation by 15%</b>.</li><li>• <b>Developed and deployed predictive ML models</b>, improving model accuracy by <b>15%</b> and automating data refresh pipelines to deliver <b>real-time insights</b> for stakeholders.</li><li>• <b>Built and customized data models</b> tailored to client needs, resulting in predictions that <b>enhanced decision-making and improved project delivery timelines by 20%</b>.</li><li>• <b>Led data visualization and storytelling initiatives</b> in Power BI, delivering actionable insights that <b>informed strategic growth decisions and supported innovation opportunities</b>.</li><li>• <b>Collaborated with cross-functional teams and stakeholders</b>, translating complex analytical outputs into clear, compelling recommendations that <b>drove well-informed business strategies</b>.</li></ul> |                   |

## EDUCATION

|   |                        |
|---|------------------------|
| Master of Science in Data Science (MSDS)          | Dec '22 - May '25      |
| University of Arizona                             | Arizona, United States |
| Bachelor of Engineering in Information Technology | Jun '17 - Jul '21      |
| Savitribai Phule Pune University                  | Pune, IN               |

## CERTIFICATIONS

- [Artificial Intelligence Fundamentals](#)
- [Oracle Cloud Infrastructure 2025 AI Foundations Associate](#)
- [Microsoft Certified MTA in Introduction to Programming using Python.](#)
- [AWS Computer Vision : Getting Started with GluonCV](#)
- [An introductory course named Introduction to Data Science in Python Certified by University of Michigan](#)
- [Deep Learning with Tensorflow 2](#)

## ACCOMPLISHMENTS

- **Received client recognition for delivering accurate predictive models** that enabled effective Workforce Planning (WFP), helping the client **anticipate future needs and optimize resource allocation**.

## KEY PROJECTS

- **Vehicle Loan Default Prediction:** Developed and optimized ML models with EDA, SMOTE, and boosting techniques, improving predictive accuracy and enabling data-driven lending decisions for reduced default risks and enhanced profitability.
- **Vision based driver nighttime assistance and surveillance system based on Intelligent Image Sensing Techniques:** Built a real-time driver monitoring and YOLO-based vehicle detection system with collision alerts and event recording, improving road safety, reducing accident risks, and enabling post-incident analysis.